

Amendments to the Specification:

Please replace the abstract with the following amended abstract:

A universal memory device is presented that provides adaptability to existing hardware and software environments. The memory can "mimic" existing memory technology combining the advantages of integrating all memory capacity into one single technology and still providing the implicit protections and access characteristics known from the different existing memory technologies. The memory device comprises a memory having a plurality of low-latency, rewritable, non-volatile memory cells forming at least one memory section, a profile storage unit connected with said memory and comprising access information allocated to at least one set of request information elements (request profile), such that said access information indicates whether a request for access an access request to said memory (access request), said the access request having said the request profile, is to be allowed or rejected, and an access control unit communicating with said the profile storage unit and said the memory, and adapted to allow or reject an incoming access request in dependence on the access information allocated to the request profile of the access request.